BRAUN, M.P., doktor tekhn. nauk; MIROVSKIY, E.I., inzh.; LEVITANUS, A.D., kand. tekhn. nauk; KARAMZIN, E.I., inzh.; SLAVIN, B.A., inzh.

Using low-nickel and nickelless steels for pinions of tractor transmissions. Mashinostroenie no.2:85-87 Mr-Ap '65.

(MIRA 18:6)

THE REPORT OF THE PERSON OF TH

BERG, S.L., polkovnik; VOROB'YEV, V.I., kapitan pervogo ranga; GIL'BO, G.M., kapitan pervogo ranga; ANANCHENKO, A.A.; BALAKSHINA, M.M.; BANNIKOV, B.S., kapitan vtorogo ranga; BAKHTINA, G.F.; BERENSHTAM, N.V.; BUTYRINA, N.Ya.; VOROB'YEV, V.I., kapitan pervogo ranga; GASS, I.P.; GINBYSH, N.S.; GLADIN, D.F., polkovnik; GOLOVANOVA, L.G., kand. ist. nauk; GOLUHEVA, Z.D., kand. filol. nauk; GONCHAROVA, A.I.; ZANADVOROVA, R.N.; IVANOVA, N.G.; KARAMZIN, G.B.; KOVAL'CHUK, A.S.; KRONIDOVA, V.A.; LITOVA, Ye.I.; MOLCHANOVA, T.I.; OKUN', L.S.; POCHEBUT, A.N.; RAYTSES, V.I.; SAVINOVA, G.N.; SENICHKINA, T.I.; SKRYNNIKOV, R.G., kand. ist. nauk; FURAYEVA, I.I.; CHIZHOVA, N.N.; YASINSKAYA, L.F.; GLADIN, D.F., polkovnik; LAHETSKIY, Ye.F., podpolkovnik; LEHEDEV, S.M., kapitan pervogo ranga; ORDYNSKIY, N.I., kapitan pervogo ranga; NADVODSKIY, V.Ye., podpolkovnik; DEMIN, L.A., inzh.-kontr-admiral, glav. red.; FRUMKIN, N.S., polkovnik, zam. otv. red.; LEVCHENKO, G.I., admiral, red.; BAKHTINA, G.F., tekhn. red.

[Naval atlas] Morskoi atlas. n.p. Izd. Glavnogo Shtaba Voenno-Morskogo Flota. Vol.3. [Naval history] Voenno-istoricheskii. Pt.1. [Text for the maps] Opisaniia k kartam. 1959. xxii, 1942 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. (Naval history)

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 78 (USSR)

AUTHORS: Nagiyev, M. F., Karamzin, P. V.

TITLE:

Development of a Method for the Compilation and Correlation of Experimental Data on the Heat Transfer in Heat Exchangers Having Odd-shaped Spaces Downstream of the Tubes, and Its Practical Application (Razrabotka metoda obobshcheniya eksperimental'nykh dannykh po teploperedache v apparatakh so slozhnym zatrubnym prostranstvom i yego prakticheskoye primeneniye).

PERIODICAL: Izv. AN AzerbSSR, 1956, Nr 4; pp 33-46

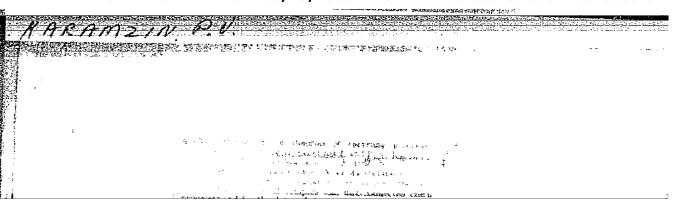
ABSTRACT: Bibliographic entry

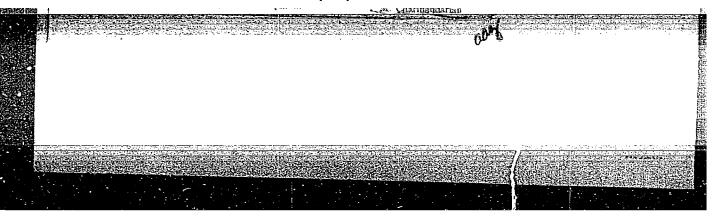
Card 1/1

WAGIYEV, M.F.; KARAMZIN, P.V.

New classification of heat-exchanging apparatus and a systematic arrangement of experimental factors of heat transfer. Izv.AM Azerb. SSR no.8:61-71 Ag '56. (MLRA 9:11)

(Heat exchangers)





NAGITEV, M.F.; KARAMZIH, P.V.

Operational efficiency of heat exchangers with annular disphragratic space. Dokl. AM Azerb. SSR 12 no.11:811-817 '56. (MIRA 10:3)

1. Institut nefti AM Azerbaydshanskey SSR.

(Heat exchangers)

KARAMZIN, P.V. Dec Cand Tech Sci -- (diss) "Study of the process of heat transfer in the heat-exchange with the circular diaphragmatic space." Baku, 1957. 24 pp with graphs 20 cm. (Academy of Sciences Az SSR. Petroleum Inst), 100 copies (KL, 21-57, 102)

-55-

SOV/124-58-1-776

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 99 (USSR)

AUTHORS: Nagiyev, M. F., Karamzin, P. V.

TITLE:

Experimental Study of the Heat-transfer Process in a Heat Exchanger Having an Annular Working Space Subdivided by Cylindrical Diaphragms (Eksperimental noye izucheniye protsessa teploperedachi v teploobmen-

nom apparate s kol'tsevym diafragmirovannym prostranstvom)

PERIODICAL: Izv. AN AzerbSSR, 1957, Nr 2, pp 23-35

ABSTRACT: The authors propose a method for the intensification of the heat

transfer in a concentric-tube heat exchanger by setting up annular diaphragms on the inner surface of the outer tube. At the location of the diaphragm the liquid flows between the external surface of the inner tube and the opening of the diaphragm. A test setup and test results are described for the case of the heat transfer in such a heat exchanger with water. It is established that the total heat-transfer coefficient is multiplied by 3 to 5 times. From the analysis of the tables adduced it is apparent that the heat-transfer coefficient

increases with increasing size of the opening in the diaphragm only Card 1/2

up to a definite limit, beyond which a further enlargement of the

SOV/124-58-1-776

Experimental Study of the Heat-transfer Process in a Heat Exchanger (cont.)

diameter of the diaphragm leads to a reduction of the heat-transfer coefficient. The paper merely states the fact of the existence of a critical section of the diaphragm.

V. N. Bogin

Card 2/2

KARAMZIN, P.V

124-58-6-6772

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 69 (USSR)

AUTHORS: Nagiyev, M.F., Karamzin, P.V.

TITLE:

Determination of the Heat Transfer Coefficient of a Flow in a Tubular Space in a Transitional Hydrodynamic Regime (Opredeleniye koeffitsiyenta teplootdachi potoka trubnogo prostranstva pri perekhodnom gidrodinamicheskom rezhime)

PERIODICAL: Izv. AN AzerbSSR, 1957, Nr 5, pp 35-44

ABSTRACT:

A method of calculation of the Nusselt number, proposed by the authors, is described for a longitudinal flow along the surface of pipes in a transitional hydrodynamic regime. The authors consider "transitional" a flow characterized by values of the Reynolds number, R, in the range between 2, 320 and 10,000. The proposed method is based on the assumption that within the abovedefined range of values of the R number a perturbation of the stability of the laminar flow does not affect the entire volume of the core of the flow. In connection there with the authors allow the coexistence of regions of laminar and turbulent flow within the core of the flow. It is proposed that the Nusselt number for the transitional conditions be determined

Card 1/3

124-58-6-6772

Determination of the Heat Transfer Coefficient of a Flow (cont.)

as the sum of: $N'_1 = LN_1 + TN_{11}$. Here N'_1 is the Nusselt criterion at $R = 2,320 - 10,000; N_{11}$ is the same quantity for laminar flow at R = 2,320; N_{lt} is the same quantity for turbulent flow at R = 10,000; the coefficients L and T characterize the distribution of the laminar and the turbulent flow regimes within the flow. The coefficients L and T are considered to be linear functions of the Reynolds number, R, of the liquid flow in the transitional state. The results of experiments carried out by the authors with water are compared with the experimental results obtained by I. T. Alad'yev, M. A. Mikheyev, and O. S. Fedynskiy (Izv. AN SSSR, Otd. tekhn. n., 1951, Nr 1). The experiments described were carried out with small variations of temperature between the inlet and outlet sections of the working region of the flow. In the analysis of the test data, a linear law of temperature variation in the stream in the direction of the flow was used. The value of the Nusselt number satisfying the laminar conditions (N11) was determined from the Zeeder and Tait formula, and that for the turbulent flow (N1t) was obtained from Kraussold formula as corrected by M. A. Mikheyev. No description of the experimental method or of the experiments is given in the article. The experimental observations of the authors were analyzed according to the Card 2/3

124-58-6-6772

Determination of the Heat Transfer Coefficient of a Flow (cont.)

usual methods of computation based on the introduction of a correction coefficient into the formula used for determining the value of N when R>10,000. The values of the correction coefficient were taken by the authors from the findings of V.M. Ramm Teploobmennyye apparaty (Heat Exchangers) Goskhimizdat, 1948 . From the curve included in the article it follows that the results of the experiments as calculated by the usual method correlate better with the results of the experiments by Alad'yev, Mikheyev, and Fedynskiy, than with those calculated by the method suggested by the authors. The formulas contain typographical errors.

M. D. Vaysman

- 1. Fluid flow--Heat transfer
- 2. Hydrodynamics research

Card 3/3

KANAMZIN, M.F.; KARAMZIN, P.V.

Experimental study of pressure losses during the flow of liquids in annular diaphragmatic space. Dokl. AM Azerb. SSR 13 no.8:847-852 (MIRA 10:9)

1. Institut nefti Akademii nauk Amerbaydahanakoy SSR. (Heat exchangers)

KARAMZIN, P. V.

20-3-43/59

AUTHORS:

Nagiyev, M.F., Member of the Academy of Sciences of the Azerbaydzhan, Shakhtakhtinskiy, T.N., Karamzin, P.V.

Development of the Theory of Recirculation Processes (Razvitiye

teorii retsirkulyatsionnykh protsessov)

Doklady Akad. Nauk SSSR, 1957, Vol. 115, Nr 3, pp.576-579 (USSR) TITLE: PERIODICAL:

ABSTRACT:

The method of calculation proposed here develops the theory of recirculation and makes possible an evaluation of the efficiency of an arbitrary complex chemical processing of raw materials not only within one single plant, but within the framework of different chemical processes which are tied together. The most general scheme represents a system of closely connected complex chemical processes. (See fig 1). Into this scheme quantities g₁₀, g₂₀...g_{mo} are introduced, denoting charges 1,2....,),...m of the reactors with an independent (prescribed) amount of raw material, and gio, g2'o SN'o Smdo denoting charges of the reactors with dependent amounts of raw material. The independent and the dependent reactor charges with fresh raw material consist of the following

go = \(\sigma_{\ioi} \), \(\gamma_{\ioi} = \(\sigma_{\ioi} \), \((1) \) mixture of components.

 $i_{\downarrow} = A_{\downarrow}$, B_{\downarrow} , C_{\downarrow} ...;

Card 1/3

The author arrives at a system of equations and solves it by dividing the system into two parts. After the total charges have been

Degelopment of the Theory of Recirculation Processes.

20-3-43/59

computed, the amount of independent charges per component is to be calculated. A judgement can be given, to what extent the postulated production rates are covered by the raw material of the corresponding composition. If the production rates should not correspond to the amount of total charges, different production rates must be introduced and the system must be solved until there is correspondence between the amount of charge and the production rates; 2. The number of separate components of all kinds of fresh raw material with the exception of one component in each reactor, is determined from the formula (7), which is obtained from the introduction of the values of the total charges into the corresponding equations of the system. In this way the solution of the system is complete. For this purpose the following is necessary: a) by usamount of fresh charge per component of each reactor with an independent supply.

b) knowing gyin, by using the system (3) the supply per component of each reactor with a dependent charge with fresh raw material is to be determined. All variants of the solutions of the system (4) in the manner detailed here are correct, if the addition of arbitrary m'-components is set equal to zero. Each variant demands, that the fresh supply of certain components is set equal to zero. They

Card 2/3

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Development of the Theory of Recirculation Processes. 20-3-43/59

cannot be known beforehand, because the amount of all the recirculant substances entering a reactor is unknown. If the variant computed appears to be undesired, the fresh supply of other components must be set equal to zero and the problem must be solved as many times until the desired variant has been found. In general the recirculants must not be carried away, but the desired composition should be obtained by an addition of the missing components from outside. Very often it can be immediately found, which component in each reactor of a dependent system possesses a fresh supply, which equals zero. There are 2 Slavic references and 1 figure.

ASSOCIATION: Petroleum Institute of the AN Azerbaydzhan SSR (Institut nefti AN A-

SUBMITTED:

February 11, 1957

AVAILABLE:

Library of Congress.

Card 3/3

NAGIYEV, M.F.; KARAMZIN, P.V.; SHAKHTAKHTINSKIY, T.N.

PHARMA

Laws of recycling processes in chemical technology. Azerb. khim.zhur. no.2:11-21 '60. (MIRA 14:8) (Chemical reaction--Conditions and laws) (Petroleum--Refining)

(MIRA 14:8)

NAGIYEV, M.F.; KARAMZIN, P.V.; GUSEYNOVA, A.M.

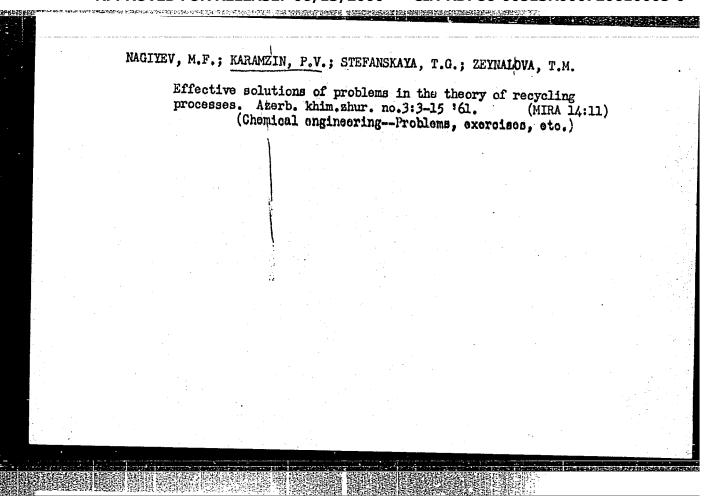
Application of the theory of the steady-state thermal conditions of exothermic reactions to the solution of practical problems. Azerb.kiim.zhur. no.4:69-74 160.

(Ethylene oxide) (Thermochemistry)

NAGIYEV, M.F.; KARAMZIN, P.V.; STEFANSKAYA, T.G.

Development of the theory of recirculatory processes in chemical technology. Dokl. AN Azerb. SSR 17 no.6:471-478
161. (MIRA 14:8)

1. Institut neftekhimicheskikh protsessov AN AzerSSR. (Chemistry, Technical)



NAGIYEV, M.F.; KARAMZIN, P.V.; MIRDZHAFAROVA, T.M.

Application of linear programming methods to the solution of problems of the theory of recycling processes in chemical technology. Azerb. khim. zhur. no.3:85-92 162. (MIRA 16:12)

PLAKSIN, I.N.; KARMAZIN, V.I.; OLOFINSKIY, N.F.; NORKIN, V.V.; KARAMZIN, V.V.; MAKARENKO, M.G., red.

A CHARLES AND SECRETARION SECR

[New trends in the concentration of disseminated iron ores] Novye napravleniia glubokogo obogashcheniia tonkovkraplen-nykh zheleznykh rud. Moskva, Izd-vo "Nauka," 1964. 202 p. (MIRA 17:4)

NIGIYEV, M.F., KARAMZIN, P.V.; ZAYTSEVA, Z.A.

Theory of reactors operating with the recycling system (on temperature gradient). Azerb. khim. zhur. no.1:
105-110 '64. (MIRA 17:5)

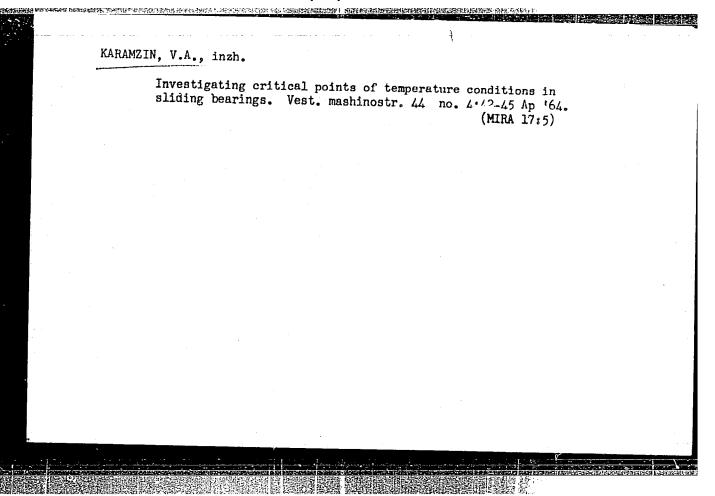
NAGIYEV, M.F.; KARAMZIN, P.V.; ZAYTSEVA, Z.A.

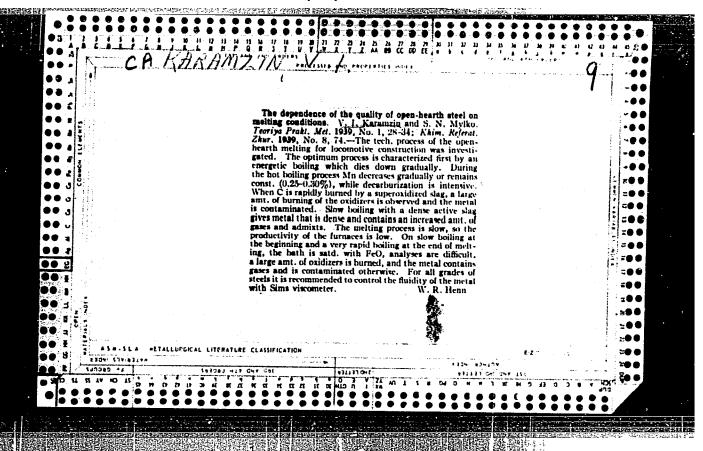
Theory of reactors operating with total recycling; on the concentration gradient. Azerb. khim. zhur. no.5279-84 163 (MIRA 17:8)

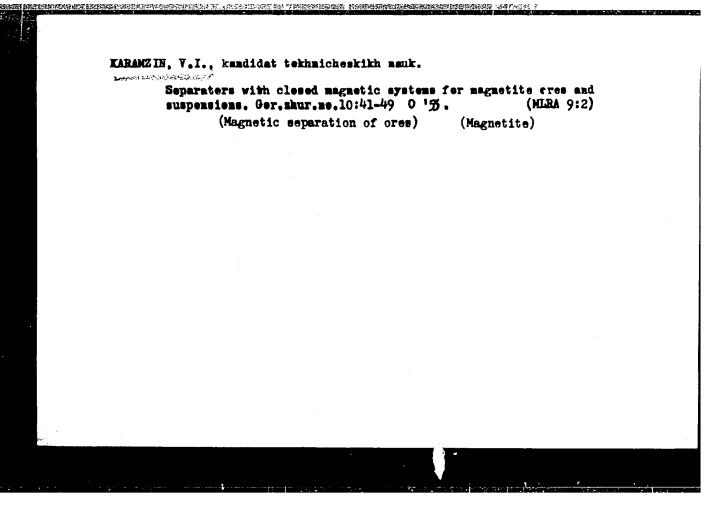
KARAMZIN, V.A.

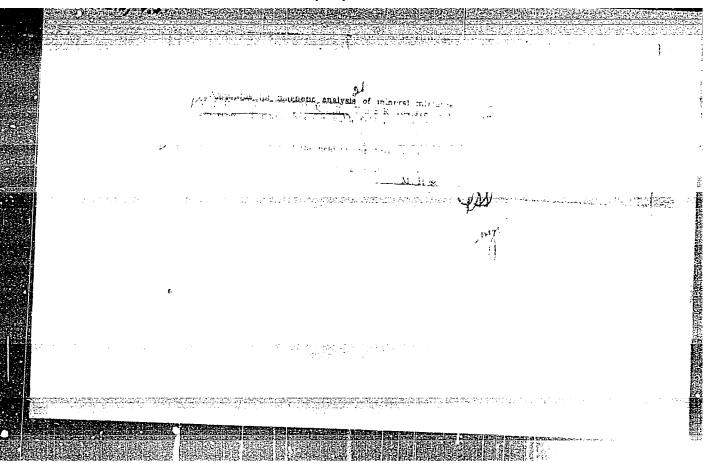
Investigating the consumption of lubricant by a sliding bearing under complex load conditions. Avt. prom. 30 no.8: 8-11 Ag '64. (MIRA 17:11)

1. Moskovskiy avtozavod imeni Likhacheva.



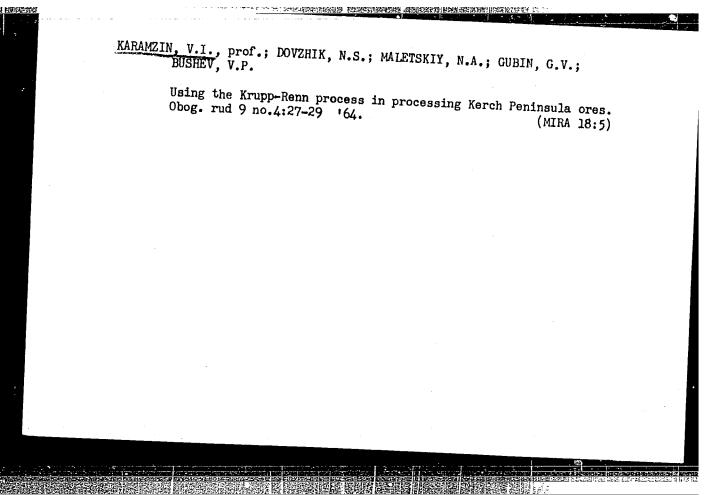






SHINKORENKO, Stanislav Fedorovich; MARGULIS, Vladimir Solomonovich; NIKOLAYENKO, Viktor Pavlovich; KHARLAMOV, Vadim Sergeyevich; DROZHILOV, Lev Aleksandrovich; GUBD, Georgiy Viktorovich; OSTAPENKO, Pavel Yefimovich; KARAMZIN, V.I., prof., doktor tekhn. nauk, retsenzent; RYKOV, N.A., otv. red.

[Handbook on the dressing and sintering of ferrous metal ores] Spravochnik po obogashcheniiu i aglomeratsii rud Chernykh metallov. [By] S.F.Shinkorenko i dr. Moskva, Nedra, 1964. 571 p. (MIRA 18:2)

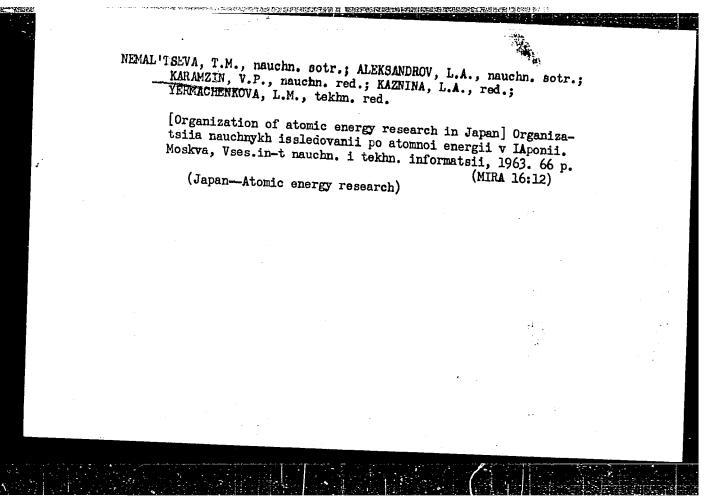


KRUTIKOVA, Mariya Sergeyevna; KARAMZIN, V.P., nauchnyy red.;
SAMILINA, S.I., tekin. red.

[Organization of research institutions in the field of atomic energy in France] Organizateiia nauchno-issledovatel'skikh uchrezhdenii v oblasti atomnoi energii vo Frantsii. Moskva, VINITI, 1963. 81 p. (MIRA 16:6)

(France—Atomic energy research)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610005-0"



SOKOLOV, Lev, Gennediyevich; KARAMZIN, Ye.M., red.; KRUGLOVA, Ye.M., red. izd-ve; LAVREHOVA, N.B., tekhn. red.

[Regular steemship lines of the U.S.S.R. and people's democracies] Morskie reguliarnye linii SSSR i stran narodnoi demokratii. Moskva, Izd-vo "Morskoi transport." 1961. 30 p.

(MIRA 14:5)

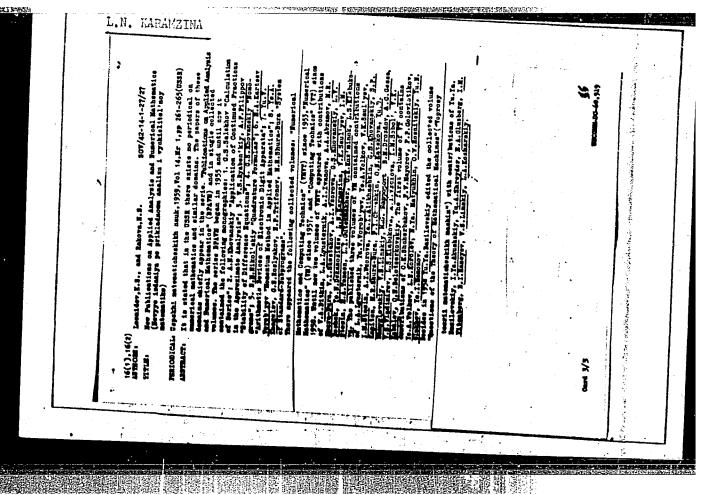
(Burore, Mastern -- Steamboat lines)

KRAMAROV, Efraim Menakhimovich; KARAMZIN, Ye.V., red.; KRUGLOVA, Ye.M., red. izd-va; LAVRENOVA, N.B., tekhn. red.

[Regular shipping lines in capitalist countries] Morskoe lineinoe sudokhodstvo kapitalisticheskikh stran. Moskva, ¹zd-vo *Morskoi transport,* 1961. 215 p. (MIRA 14:10)

KARAMZINA K.N.: DITKIN, V.A., professor, redaktor; KOPNOV, Ye.V., redaktor; SHEVCHENKO, G.N., tekhnicheskiy redaktor

[Tables of Jacobi polynomials] Tablitsy polinomov IAkobi. Moskva, Izd-vo Akademii nauk SSSR, 1954. 249 p. (MIRA 8:2)



BASS, N.A., inzh.; ZABEZHANSKIY, I.I., inzh.; KARAMZINA, N.A., inzh.;
MIKHHENKO, A.P., inzh.

Automatic voltage regulation in the substations of an electric power system. Elek. sta. 32 no.12:18-25 D '61. (MIRA 15:1)

(Electric power distribution)

ACC NR. AP 6032135 SOURCE CODE: UR/0391/66/000/009/0032/0036 AUTHOR: Karamzina, N. M. (Moscow); Pavlova, I. V. (Moscow) Institute of Industrial Hygiene and Occupational Diseases, AMN SSSR (Institut gigiyeny truda i profzabolevaniy AMN SSSR) TITLE: Oxidation processes in lungs of rats after poisoning with various beryllium compounds SOURCE: Gigiyena truda i professional'nyye zabolevaniya, no. 9, 1966, 32-36 TOPIC TAGS: animal physiology, respiratory system, enzyme, poison effect, rat, beryllium compound, aluminum compound ABSTRACT: The comparative effect of poisoning with various beryllium compounds on pulmonary oxidation processes in white rats was studied. A single dose of beryllium oxide or a mixture of equal parts metallic beryllium and aluminum introduced intratracheally caused a sharp increase in the weight of lungs of experimental animals and inhibited the oxidation of alpha-ketoglutaric and malic acids by pulmonary tissue enzymes. After poisoning with beryllium-aluminum alloys, pulmonary oxidation processes were much less affected, apparently because of the UDC: 616.24-003.669.725-092.9-07:616.24-Card 1/2 . -008.922.1

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Card	212										•

AVRUNINA, G.A.; KARAMZINA, N.M.; FEDOROVA, V.I.; YANOVSKAYA, B.I.

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人

Biologic action of high energy irradiation. Biul. eksp. biol. i med. 52 no.8:52-56 Ag '61. (MIRA 15:1)

l. Iz Instituta gigiyeny truda i profzabolevaniy AMN SSSR i gruppy pri deystvitel'nom chlene AMN SSSR B.A.Lavrove, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR A.A. Letavetom. (RADIATION_PHYSIOLOGICAL EFFECT)

ULANOVA, I.P.; SAMOYLOVA, L.M.; KARAMZINA, N.M.; AVILOVA, G.G.

Toxicology of chloropelargonic acid condensation aerosols.
Toks. nov. prom. khim. veshch. no.5:89-100 '63. (MIRA 17:9)

VITMAN, V.D.; VOINOVA, N.A.; DZHELEPOV, B.S.; KARAN, A.A.

Relative intensities of some γ -lines in the spectrum of Tal82. Izv. AN SSSR. Ser. fiz. 25 no.2:199-200 F '61. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I. Mendeleyeva i Fiziko-tekhnicheskiy institut AN SSSR.

(Tantalum-Spectra)

WITMAN, V.D.; DZHELEPOV, B.S.; KARAN, A.A.

Relative intensities of Y-rays from RaC in the 1300-2520 KeV energy range. Izv. A.N. SSSR. Ser. fiz. 25 no.2:201-206 F '61.

(MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva.

(Bismuch-Isotopes)

(Gamma rays)

S/056/61/040/002/015/047 B102/B202

AUTHORS:

Vitman, V. D., Voinova, N. A., Dzhelepov, B. S., Karan, A. A.

TITLE:

892.4-kev gamma transition in the W¹⁸² nucleus

PERIODICAL:

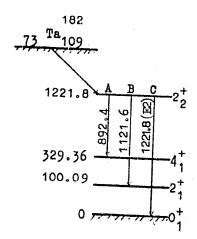
Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 40,

no. 2, 1961, 479-482

TEXT: The authors present measurement results of the intensity of 892.4-kev gamma transition from the 1221.8-kev level to a level of the fundamental rotational band in w182. The experimental results obtained for the Ta182. w182 decay are illustrated in the decay scheme. The transitions B and C are well known. The present paper gives details concerning transition A. The 892-kev line has been known since 1950; its relative intensity (intens-

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892.4-kev gamma ...



S/056/61/040/002/015/047 B102/B202

ity of the 892.4-kev gamma radiation referred to that of the 1221.8-kev gamma radiation) was found to be 0.01? or less. The following value was obtained by V. S. Gvozdev, L. I. Rusinov, and Yu. L. Khazov from the conversion electron spectrum: $K_{892.4}/K_{1221.8} \stackrel{<}{=} 0.02$; C. J. Gallagher et al. (Phys. Rev. 113, 1298, 1959) found a line with 894.7+0.8 kev $\frac{113}{T_{1/2}}$ = 13 hr) of considerably higher intensity: $K_{894.7}/K_{1221.8} \stackrel{<}{=} 2:3$ in Re $^{182} \rightarrow w^{182}$ decay. According to the authors, this line is too intense to be related to the 1221.8-kev level of w^{182} . To explain this problem, the ranges 850-910 and 1100-1250 kev of the gamma spectrum were studied by means a new magnetic spectrometer (Elotron) which had been built of the VNIIMa; this spectrometer is characterized by high sensitivity (1.2% in the

Card 2/6

892.4-kev gamma...

S/056/61/040/002/015/047 B102/B202

range of 1 Mev) and low background. The recoil-electron spectrum is shown in Fig. 2. The results were entered without consideration of the background (which was constantly about 0.04 pulses per minute). I($\gamma_{892.4}$)/I($\gamma_{1221.8}$) \leq 0.006 was obtained for the intensity ratio. On the basis of the theory of non-axial nuclei of A. S. Davydov et al., the authors then calculated the relative intensities of the 1221.8 and 1121.6 kev transitions. Using a formula by Davydov with E(2_1^+) = 100.092 kev and E(2_2^+) = 1221.8 kev, γ was found to be 11.40°. The following results were obtained:

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892.4-kev gamma...

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Intensity ratios for the transitions A, B, C from the 1221.8-kev level

Trengition	P		Theoreti	cal in	tensit		Tevel
energy,	Experimental intensity ratio	acc. to Davydov		acc. to Alaga			
	1 1 1 1 1	γ=11.40°	γ'=11.20°	K=0	K=1		
					: :	without correc- tion	with correc- tion
892.4 1121.6 1221.8	≤ 0.6 122 100	3.8 131 100	3.7 130 100	53.6 93.2 100	23.8	1.46 93.2 100	3.2 122 100

Card 4/6

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610005-0"

892.4-kev gamma...

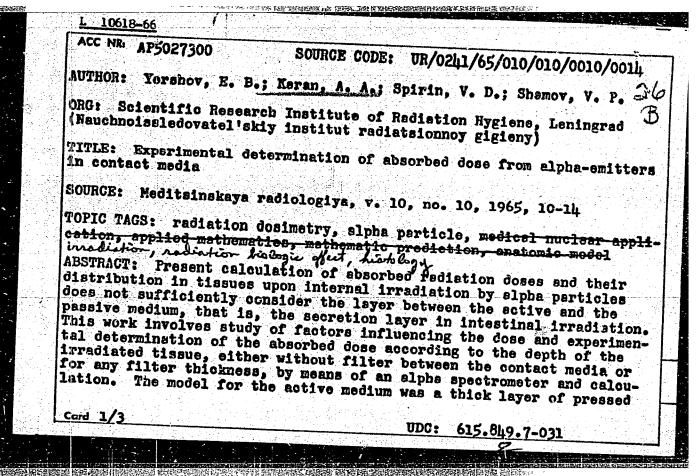
S/056/61/040/002/015/047 B102/B202

According to the theory of axial nuclei by G. Alaga et al (Kong. Dan. Vid. Selsk.Mat.-fys.Medd. 29, 9, 1955), the intensity ratio of the transitions depends on the quantum number K of the 1221.8-kev level. The transition intensity ratios following from this theory are also shown in the table. The values for K=2 are in fairly good agreement with the measured values; those obtained for the 892.4-kev transition, however deviate largely. N. N. Zhukovskiy is mentioned. There are 2 figures, 1 table, and 17 references: 7 Soviet-bloc and 10 non-Soviet-bloc.

ASSOCIATION: Vsesoyuznyy institut metrologii (All-Union Institute of Metrology)

SUBMITTED: September 24, 1960

Card 5/6



L 10618-66

ACC NR. AP5027300

talc with evenly distributed Pu²³⁹, and that for the passive layer was koloxylin lamellae simulating cellular layers of various thickness. Even distribution of radioactive isotope and irradiation throughout the media was assumed. Based on the spectra obtained and insertion of values into the formula

ZE: N:

ZW:

where E, is the energy of alpha particles corresponding to the i-channel \mathbb{N}_4 the number of alpha particles with \mathbb{E}_4 energy, and further calculation in consideration of Δd layer, the formula

was arrived at for the dose absorbed in layer Ad. It is concluded that this method of simulation permits determination of the distribution of the quantity of dose absorbed according to the depth of the irradiated medium (mucosal cover of the gastrointestinal tract) from the known thickness of the filter layer (secretion layer in the tract). The mean onergy of alpha particles leaving the thick emitter is equal to 0.56 of

filter the am	be equal to the patheration within the count of absorbed of over the whole ps $D_1 = 2.64 \cdot \overline{D}_{Rol} \cdot D_{11}$	th is equal to:	cles is 11% (e absence of lar layer of	xem edf lo
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ACCESSION NR: AP50	14543	177/000 /c. I	ورد د المحال
AUTHOR: Yershov, R.		UR/0089/65/018/005 539.12 39.121.6	/0519/0520 h
PITIE: Concerning +	B.; Karan, A. A.; Shamov	13V. P.	14
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Tor	mula obtained for each.	The empirical form of the rum into four energy ranges, By using the fact that tale	with a
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VINOGRADOV, V.S. (Moskva); KARAN, A.B. (Moskva); BOL'SHAKOVA, V.M.

阿拉尔斯尼亚

Selecting flow sheets for argon-arc uspended spot welding of aluminum alloys. Avtom. svar. 17 no.6:29-32 Je 164 (MIRA 18:1)

CIA-RDP86-00513R000720610005-0 "APPROVED FOR RELEASE: 06/13/2000

KARAN, A-15

Subject

: USSR/Engineering-Welding

AID P - 5056

Card 1/1

Pub. 107-a - 5/9

Authors

: Tret'yakov, F. E., A. B. Karan and S. M. Valeyev

Title

THE REPORT OF THE PARTY : Arc-welding of thin steel plates with a CO2 shield

Periodical

: Svar. proizv., 20-22, My 1956

Abstract

: The authors present the results of their experimental research on automatic and manual carbon dioxide arc welding of steel plates 1 to 3 mm thick, carried out at the "Elektrik" (Electrician) Plant (Leningrad). The ADS-1000-2 welder was used, some other equipment and electrodes were described. Five tables, 2 diagrams, 2 graphs, 3 photos, and GOST standards.

Scientific Research Institute of Aviation Technology

(NIAT), All Union Scientific Research Institute of the

Autogenous Treatment of Metals (VNIIAvtogen).

Submitted

Institutions:

: No date

8/135/60/000/001/004/005 A006/A001

AUTHORS:

Tret'yakov, Fe. Ye., Candidate of Technical Sciences, Karan, A. B., Engineer, Tsar'kov, G. P., Technician

TITLE:

The Strength of AMT6? (AMG6T) Alloy Spot Welds at High Temperatures

Svarochnoye proizvodstvo, 1960, No. 1, pp. 27-28 PERIODICAL:

TEXT: Data are presented on the strength of AMG6T alloy spot welds subjected to shearing and rupture tests at 20, 200 and 300°C. The specimens were welded on a MTMM-450-2 (MTIP-450-2) three-phase pulse machine. Prior to welding they were etched in orthophosphoric acid. Cadmium-copper electrodes were used. The diameter of welded spots was selected depending on the thickness of the parts to be welded according to industrial instructions. The penetration depth was 40 to 50% of the sheet thickness under welding conditions given in Table 1. The welded specimens were tested on a 30-ton machine equipped with a heating installation which ensured the uniform heating of specimens up to 300 $^{\circ}$ C. ν The temperature was checked with an 3MA-17 (EPD-17) thermoregulator. During the tests the specimen was held for 5 minutes at the given temperature and was then subjected to loading until its breakdown. When subjected to static shearing

Card 1/2

8/135/60/000/001/004/005 A006/A001

The Strength of AMT6T (AMG6T) Alloy Spot Welds at High Temperatures

the strength of a single-spot weld decreased in 1 - 2 mm thick specimens by 8 - 15% at 200°C and by 24 - 39% at 300°C, as compared to the strength at normal temperature. The strength of single spot welds of 1 - 3 mm thick specimens subjected to static rupture increased slightly at 200 C and decreased at 300 C by 20 - 32% as compared to normal temperature. The ductility of the spot weld was estimated by calculating the ratio R rupt

• 100%

where R_{rupt} and R_{sh} are the corresponding breaking forces in rupture and shearing tests. This ratio increases generally with a greater thickness of the material and higher temperature of tests when welding AMG6T alloys, [Abstractor's note: Subscripts rupt and sh are translations from the original ot (otryv rupture) and sr (srez - shear)]. There are 2 figures and 2 tables.

Card 2/2

85187

only 2208, 2708

\$/135/60/000/003/004/005 A115/A029

AUTHORS:

Tret yakov, F.Ye., Candidate of Technical Sciences, Karan, A.B.,

Graduate Engineer and Tsar'kov, q.P., Technician

TITLE:

Relief Welding of Alloyed Steel and Titanium Parts

PERIODICAL:

Svarochnoye proizvodstvo, 1960, No. 3, pp. 35-37

TEXT: The authors describe relief welding of anchor nuts, bushes and connecting pipes of BT-1 (VT-1) Hittanium or 3 N 654 (EI 654) Mand 30XTCA (30KhGSA) tsteel. All parts were welded to 2-3 mm plates. Ring-embossed parts were made of rod-iron on a turning-lathe and had a class 4 surface finish according to COCT-2789-51 (GOST-2789-51). Anchor nuts were subjected to hard forging, hardening and sand-blasting. Parts of VT-1 titanium and ET 654 steel were degreased with acetone and sometimes finished with medium emery cloth. Satisfactory results were obtained with titanium (Fig. 1a), ET 654 steel (Fig. 1b) anchor nuts, VT-1 titanium and ET 654 connecting steel pipes and bushes (Fig. lv, g), and double-looped anchor bolts of EI 654 and 30 KhGSA steel (Fig. 2). Special electrodes of cadmium copper and MU -4 (MTs-4) alloy of NV 110 hardness were used. Relief contact welding of an anchor nut is shown in Figure 3. Singlephase MTN-75 (MTP-75) welding machines equipped with NNT-100 (PIT-100) cur-Card 1/2

S/135/62/000/006/008/014 A006/A106

18.1210

Kainova, G. Ye., Karan, A. B., Engineers

TITLE:

AUTHORS:

Welding aluminum alloy BAH 1 (VAD1) [H 19c (D19s)]

PERIODICAL: Svarochnoye proizvodstvo, no. 6, 1962, 23 - 25

TEXT: An investigation was made of the weldability of thermal-strengthened VAD1 (D19s) aluminum alloy sheets, 1.84 - 1.88 mm thick. In annealed state the VAD1 alloy shows b 20 kg/mm²; = 18 - 20%. The ultimate strength of the base material after heat treatment, at room temperature, is 42.7 kg/mm², at 300°C it is 18.5 kg/mm² and at 350°C - 12.7 kg/mm². The strength of the base and the weld metal was determined at various temperatures and by using various welding methods. It was found that the VAD1 alloy can be successfully welded by the resistance and argon-arc methods. Best results are obtained in automatic argon-arc welding with a non-consumable lateral-supplied electrode. Heat treatment of argon-arc welded joints (quenching at 505 - 510°C, water cooling and 10-day natural aging) assures equal strength of the weld and the base metal at both normal and elevated temperatures. Joints produced by seam welding have a strength of

Card 1/2

ACCESSION NR: AP4039766

\$/0125/64/000/006/0029/0032

AUTHOR: Vinogradov, V. S. (Moscow); Karan, A. B. (Moscow); Bol'shakova, V. M. (Moscow)

TITLE: Argon arc spot welding of unsupported aluminum alloy thin

SOURCE: Avtomaticheskaya svarka, no. 6, 1964, 29-32

TOPIC TAGS: aluminum alloy, alloy thin sheet, arc spot welding, sheet arc spot welding, thin sheet, thin sheet welding, AMg6 alloy

ABSTRACT: In an attempt to develop a suitable technique for TIG or MIG spot welding of unsupported thin aluminum alloy sheets, four welding techniques have been tested: TIG and MIG with melting through the upper sheet and TIG and MIG with holes predrilled in the upper sheet. Tests were conducted with AMg6 alloy sheets 1 mm (upper sheet) and 2 mm (bottom sheet) thick. ADSP-2 and ADSV-2 automatic welders fitted with modified electrode holders and a

Card 1/2

KAINOVA, G.Ye., inzh.; KARAN, A.B., inzh.

Welding of the VAD1 (D19s) aluminum alloy. Svar. proizv.
no.6:23-25 Je '62.
(Aluminum alloys-Welding)

(Aluminum alloys-Welding)

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KAKAN, YU.D. ANTOHOV, I.A., kand.tekhn.nauk; ANTOSHIN, Ye.V., inzh.; ASINOVSKAYA, G.A., inzh.; VASIL'YEV, K.V., kand.tekhn.nauk; GUZOV, S.G., inzh.; DEYKUN. V.K., inzh.; ZAYTSEVA, V.P., inzh.; KAZHEKOV, P.P., inzh.; KAZAN. Yu.B., inzh.; KOLTUNOV, P.S., kand.tekhn.nauk; KOROVIN, A.I., inzh.; KRZHECHKOVSKIY, A.K., insh.; KUZNETSOVA, Ye.I., insh.; MATVEYEY, N.N., tekhnik; MOROZOV, M.Ye., insh.; NEKRASOV, Yu.I., insh.; NECHAYEV, V.D., kand.tekhn.nauk; NINEURG, A.K., kand.tekhn.nauk; SPEKTOR O.Sh., insh.; STRIZHEVSKIY, I.I., kand.khim.nauk; TESMENITSKIY, D.I., insh.; KHROMOVA, TS.S., inzh.; TSEUNEL!, A.K., Inzh.; SHASHKOV, A.N., kand. tekhn.nauk, dots.; SHELECHNIK, M.M., inzh.; SHUKHMAN, D.Ya., inzh.; EDEL'SON, A.M., insh.; VOLODIN, V.A., red.; UVAROVA, A.F., tekhn.red. [Machines and apparatuses designed by the All-Union Institute of Autogenous Working of Metals] Mashiny 1 apparty konstruktsii VNIIAvtogen. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1957. 173 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut avtogennoi obrabatki metallov, no.9) (Gas welding and cutting -- Equipment and supplies)

YUGOSLAVIA / Chemical Technology, Chemical Products and Their

H-28

Application. Food Industry.

是这种强烈的。 第14章 "我是我们的最后的人,我们就是我们的人们就是我们的人们的人,我们就是我们的人们的人们的人们的人们的人们的人们的人们的人们的人们就是我们的人们是我们们的

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 17436

Author

: Savic, I.; Karan-Durdic, S.

Inst

: Not given

Title

: Changes in Meats as Affected by Thermal Treatment

Orig Pub

: Veterin. glasnik, 1957, 11, No 2, 264-269

Abstract

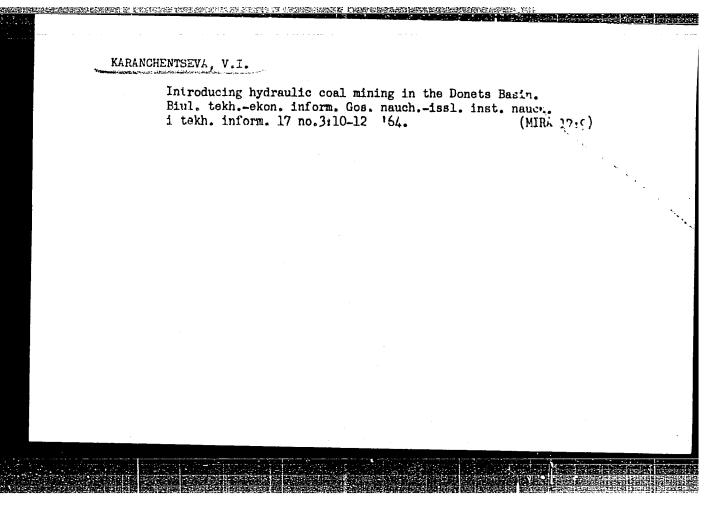
: Review of effects resulting from heating on the changes

of pH, color, and vitamin content of meats. Bibliography

includes 5 titles.

Card 1/1

2.1p20 v2.1g 10.0u	(Abkha	zia-Roads)	no.1:35-36 Ja	(MIRA 11:1)
			-	



SOBIN, V.L.; KARANCHUK, W...

Device for active control in dimensional grinding of butt ends.
Avt.prom. 27 no.10:39 0 '61. (MIRA 14:10)

1. Minskiy avtozavod. (Grinding and polishing)

ZAYEZDNYY, Aleksandr Mikhaylovich; KARANCHUK, P.G., otvetstvennyy redaktor; VORONOVA, A.I., redaktor; RITTERROER, N.Y., tekhnicheskiy redaktor

[A collection of problems and exercises for a course in "theoretical radio engineering"] Shornik radach i uprashnenii po kursu "Teoreticheskale radiotekhnika." Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1957. 470 p. (MLRA 10:5)

(Radio---Problems, exercises, etc.)

44817

8/044/63/000/001 A060/A000

AUTHOR:

Karandakov, G.V.

TITLE:

On a possible principle for simulating systems of linear differential equations with boundary conditions.

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1963, 1 - 2, abstract 1V3 (Tr. Rostovsk. inzh.-stroit. in-ta, 1961, no. 23, 15 - 20)

TEXT: The author considers one of the possible principles for obtaining solutions of systems of ordinary linear differential equations with boundary conditions by means of analog computers. A simulation concept is proposed, consist ing in that one sets up two systems of equations on the analog computer. The first corresponds to the equation being solved, and the second has for its solution a function which is the mirror image of the first system. The second system possesses the property that, if one substitutes in it for the initial conditions all the end values of the first system, then we obtain as result of solving the initial conditions for the first system. In solving both systems one obtains the requisite function, satisfying all the boundary conditions. We have the canoni-

Card 1/4

On a possible principle for simulating systems

S/044/63/000/001/029/053 A060/A000

cal system of differential equations

$$\frac{dx_1}{dt} = a_{11}x_1 + a_{12}x_2 + \dots + a_{1n}x_n + b_1,$$

$$\frac{dx_2}{dt} = a_{21}x_1 + a_{22}x_2 + \dots + a_{2n}x_n + b_2,$$

$$\frac{dx_n}{dt} = a_{n1}x_1 + a_{n2}x_2 + \dots + a_{nn}x_n + b_n$$

and let this system have as its solution the function x = f(t), satisfying all the specified conditions. Then one constructs a system of differential equations which has as its solution $\overline{x} = f_1(t)$ - the mirror image of the solution x = f(t). For this, in the initial system of differential equations, t is replaced by -t. One obtains a conjugate system, written like this:

$$-\frac{d\overline{x_1}}{dt} = a_{11}\overline{x_1} + a_{12}\overline{x_2} + \dots + a_{1n}\overline{x_n} + b_1,$$

Card 2/4

On a possible principle for simulating systems ... 8/044/63/000/001/029/053

$$-\frac{dx_2}{dt} = a_{21}x_1 + a_{22}x_2 + \dots + a_{2n}x_n + b_2,$$

$$-\frac{d\overline{x_n}}{dt} = a_{n1}\overline{x_1} + a_{n2}\overline{x_2} + \dots + a_{nn}\overline{x_n} + b_n.$$

The computer realization of this system yields the conjugate solution for positive time as the author indicates. To prove this, it is demonstrated that the roots of the characteristic equations of the two systems differ in sign. The author notes that in solving systems with variable coefficients a (t) and variable right—hand members b (t), one must use in the conjugate system the conjugate quantities \overline{a} (t) and \overline{b} (t). Moreover, since in the solution of boundary problems the initial conditions are often known partially, the solution of the problem is carried out by the method of successive approximations. In the first approximation the missing initial conditions of the base system of differential equations are specified arbitrarily. Subsequent initial conditions are taken from the results of the solution of the conjugate system. The convergence criteria of the itera—

Card 3/4

On a possible principle for simulating systems....

S/044/63/000/001/029/053 A060/A000

tion process are not investigated by the author.

P.P. Vasil'yev

[Abstracter's note: Complete translation]

Card 4/4

KARANDAKOV, G.V., aspirant; KEROPYAN, K.K., prof., doktor tekhn. nauk, red.

[Some problems in the theory of calculating rod systems by the electric modeling method; a scientific report]
Nekotorye voprosy teorii rascheta sterzhnevykh sistem metodom elektromodelirovaniia; nauchnoe soobshchenie. Rostvna-Donu, Rostovskii inzhenerno-stroit. in-t, 1963. 38 p.

(MIRA 17:9)

S/777/61/000/000/004/005

AUTHORS: Pukhov, G. Ye., Vasil'yev, V. V., Grezdov, G. I., Karandakov, G. V.,

Proskurin, Ye.A., Levin, A.G.

TITLE: Device for the visual observation of the voltage distribution in electric-

grid models.

SOURCE: Voprosy vychalitel'nyy tekhniki; mashiny, ustroystva, elementy ii ikh

primeneniye, Ed. by A. M. Novik. Kiyev, Gostekhizdat USSR, 1961, 99-104.

TEXT: The paper proposes a device that provides a reading of the most significant voltage values in electric analogs and thus afford a representation, for example, of the maximum values and the general character of the variation of bending moments in an electric analog of a stressed beam. The voltages to be measured enter a multichannel commutator, where a control block governs their successive entry into the imput of a cathode-ray indicator (CRT) over a time T. The scanning of the CRT is synchronized with the beginning of the commutation, and its duration is selected to equal the commutation period of the entire ensemble of the voltages to be measured. The 3 alternative versions of this arrangement differ in the type of the commutator used and the method of the synchronous scanning along the axis of the abscissae: (1) An electromechanical commutator with a step-by-step switch.

Card 1/2

Device for the visual observation of the S/777/61/000/000/004/005

(2) An electromechanical commutator with a collector. (3) An electronic commutator. An experimental investigation of these 3 types of commutators denotes their respective advantages and shortcomings: Advantages: Type (1) - simple design; permits the use of stock types of step-by-step switches; type (2) - relative freedom from noise; type (3) - total freedom from noise. Types (1) and (2) - direct voltage commutation with a transmission coefficient equal to 1 in all channels; type (3) - elevated commutation rate: Type (1) - commutator can be stopped at any step of the switch; type (2) - can operate with the ordinary 307 (E07) indicator; type (3) - no mechanical contacts, no rotation. Shortcomings: Type (1) - requirement for an indicator with prolonged image persistence; type (3) - awkward design if ordinary

electron tubes are used for the commutation with a large number of points; types (1) and (2) - requirement for mechanical contacts and rotating parts; type (3) - need for equalization of the constants of the component gates and of the amplification according to channels to prevent a scatter of circuit and tube parameters when tubes are replaced; type (1) - significant noise effects during the motion of the switch. All three types do not permit the reading of voltages when the latter vary with a frequency that is close to the scanning frequency. There are 6 figures.

Card 2/2

	8/271/63/000/003/023/049 L A060/A126
AUTHOR:	Karandakov, G.V.
Tivie:	On the problem of simulating frames with unequal supports
PERIODIÇAL:	Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 3, 1963, 6, abstract 3B34 (Yr. Rostovak. inzhstroit in-ta, 1961, no. 23, 107 - 110)
TEXT: their ends a	The author considers a frame system with unequal supports having at hing support or a rigid fastening. It is demonstrated that wen a
with displac	pad is acting on this system, the application of the method of elec- ation to analyzing the system reduces to the simulation of frames cable elements. A network for the electrical simulation of a parti- system illustrating the method described is shown. There are 3 fig-
res, 2 tabl	25 au . D references.
	1.v.

KARANDASHEV, N. I.

"Sulfonation of 2-Chloronaphthalene." Sub 28 Feb 52, Moscow Crder of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

CHERNAKOV, Fedor Andreyevich, insh.; RYZHIK, Z.M., insh., red.;

KARANDASHEV, M.M., red.; FRECER, D.P., tekhn.red.

[Manufacture of welded frames from AMg-67 aluminum alloy]

Opyt isgotovlenita svarnogo korpusa isdalia iz sliuminievogo
splava marki AMg-67. Leningrad, Leningr.dom nauchmo-tekhn.

propagendy, 1958. 17 p. (Informatsionno-tekhnicheskii listok,
no.59. Svarka i paika metallov)

(Aluminum alloys-Welding)

(Aluminum alloys-Welding)

GAL'PERIN, Aleksandr Vladimirovich; TELESHEV, A.N., redaktor; LARANDASHEV, V.D., redaktor; CHICHERIN, A.N., tekhnicheskiy redaktor

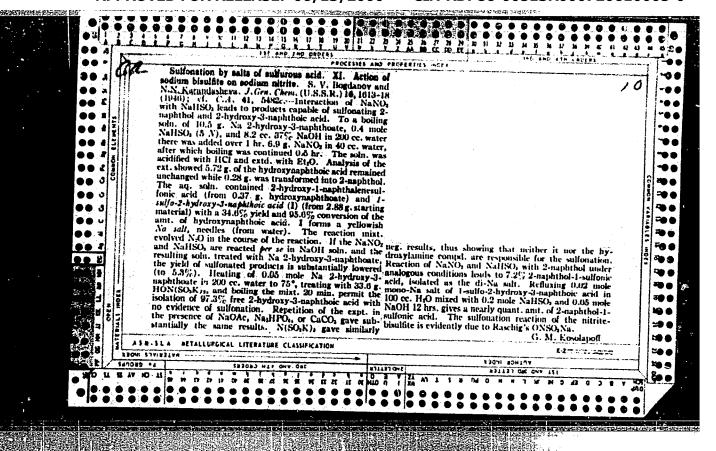
[Determining photographic exposure] Opredelenie fotograficheskoi ekspositsii; exkponometriia dlia kino i fotoliubitelei. Moskva,
Gos.izd-vo "Iskusstvo," 1955. 110 p. (MLRA 8:10)

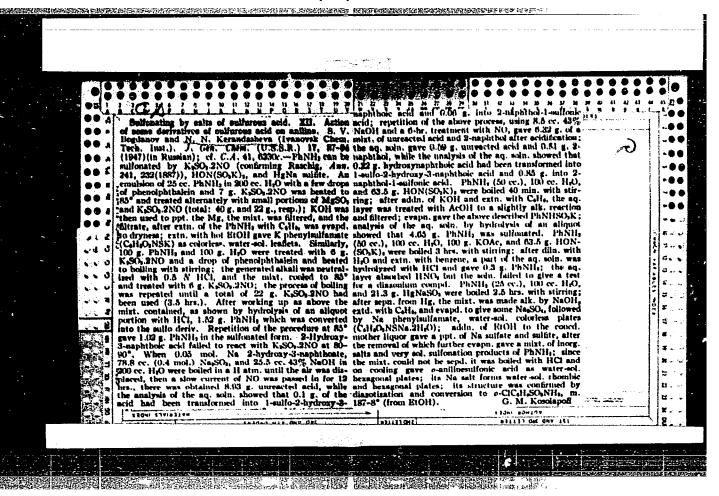
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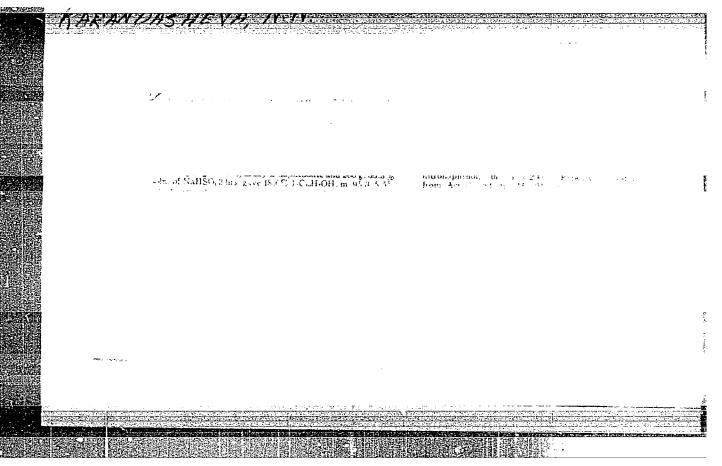
KARANDASHEV, V.I.

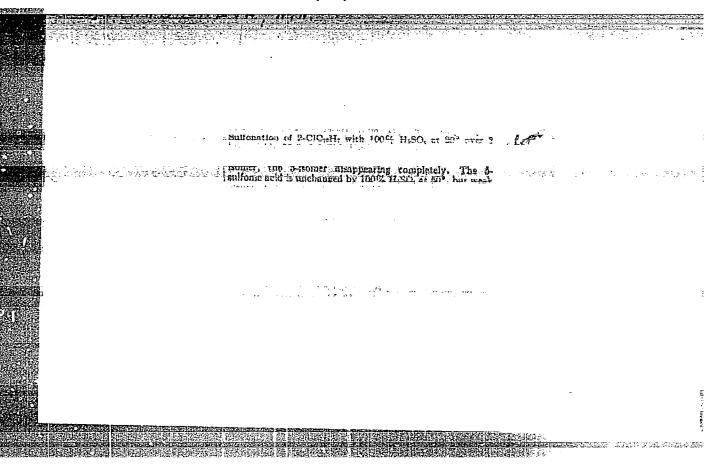
of articles more successfully. Standartization 28 no.10: 32-34 0 '64. (MIRA 17:12)

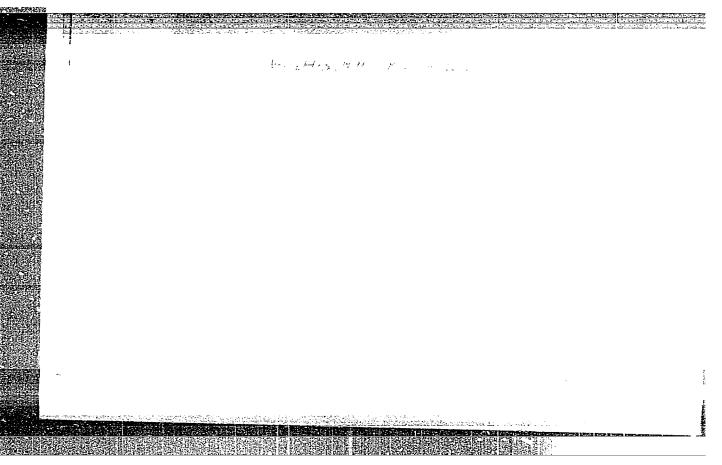
l. Nachal'nik bazovogo otdela standartizatsii Moskovskogo soveta narodnogo khozyaystva.

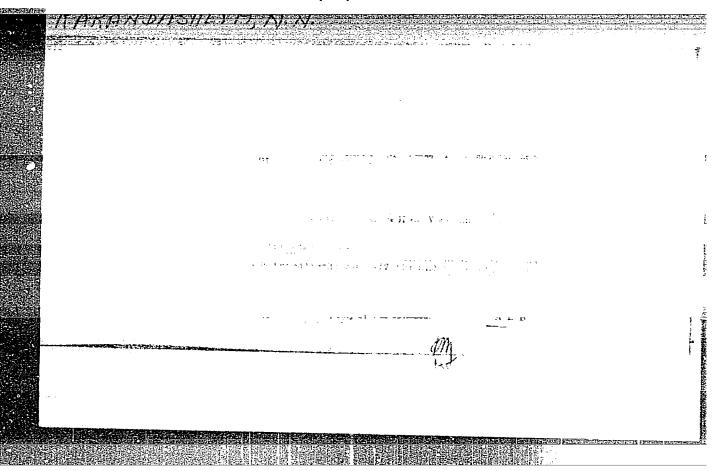












= KARANDASHEVA, N.N.

USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19160

Author : Vorozhtzov N. N., ml., Karandasheva N. N.

Inst Title

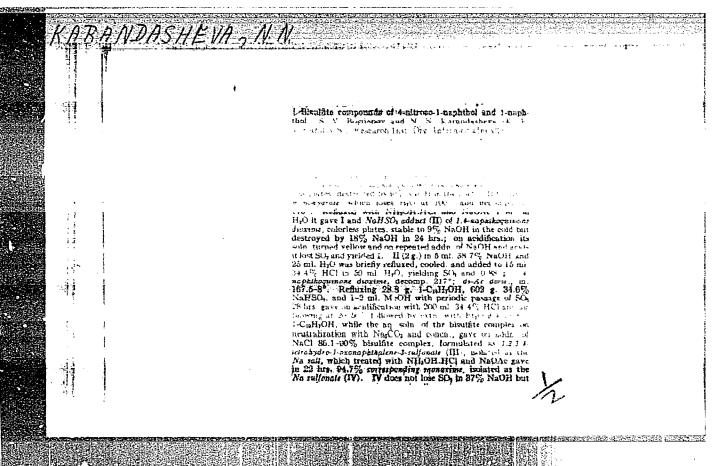
Sulfonation of 2-Ohloronaphthalene. III. Two Step Sulfonation with a Monohydrate and Cleum.

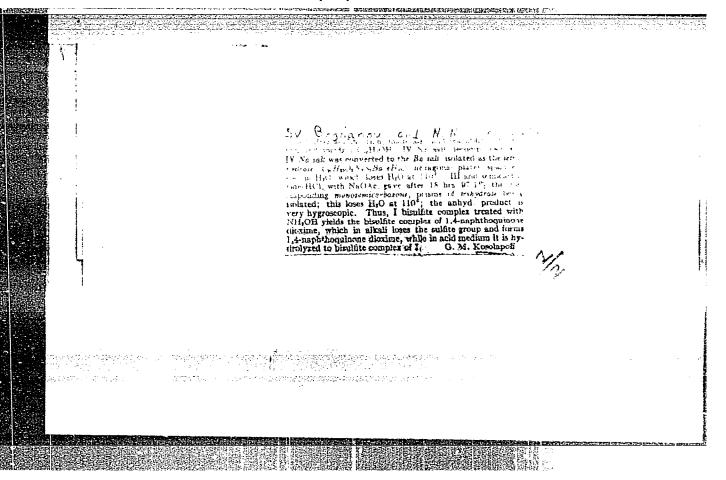
Orig Pub: Zh. obshch. khimiyi, 1956, 26 No 8, 2258-2260

Abstract:

At the action of 19% oleum on a sulpho mass obtained by the sulphonation of 2-chloronaphthalone (I) with anhydrous H₂SO₄ at 20° as well as at 160°, 2-chloronaphthalene-6,8-disulphonic (II) acid only is formed. The mechanism of the roaction is discussed. To 0.72 mole H₂SO₄ is added 0.12 mole I and after 3 hours (20°) is added 54.1 g. 57.7% oleum; in an hour the mixture is poured at 0° into water with ice; after the usual treatment and crystallization of K-salt and the Chloranhy-

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VORONZHTSOV, N.N. mladshiy; KARANDASHEVA, H.N.

Sulforation of 2-chloronaphthalene. Part 2: Sulforation at elevated temperature. Zhur. ob. khim. 26 no.8:2255-2257 Ag 156. (MIRA 10:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.
(Naphthalene) (Sulfonation)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610005-0"

VOROZHTSOV, N.N., mladshiy; KARANDASHEVA, N.N.

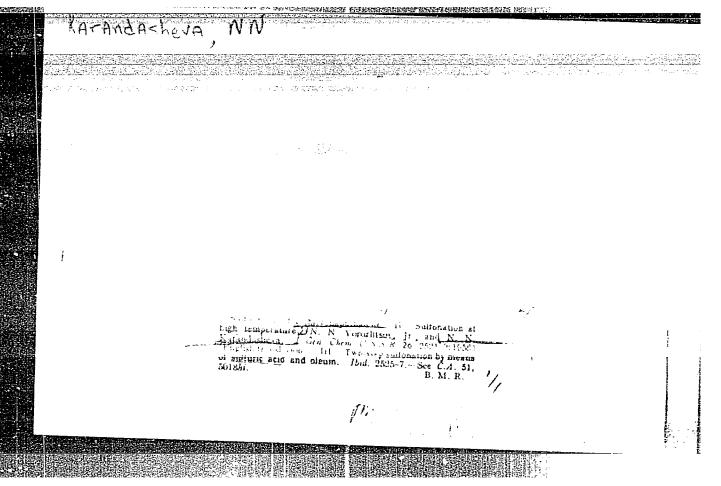
Sulfonation of 2-chloronaphthalene. Part 3: Two-step sulfonation with monohydrate and oleum. Zhur. ob. khim. 26 no.8:2258-2260 Ag '56.

(MIRA 10:11)

1. Moskowskiy khimiko-tekhnologicheskiy inatitut imeni D.I. Mendeleyeya.

(Naphthalene) (Sulfonation)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610005-0"



FOKIN, Ye.P.; KARANDASHEVA. N.N. Composition of chromium complexes of azo dyes. Zhur. VKHO 5 no. 2:235-236 *60. (MIRA 14:2)

1. Nauchno-issledovatel skiy institut organicheskikh poluproduktov i krasiteley imeni K.Ye. Voroshilova.

(Azo dyes) (Chromium compounds)

TABACHNIKOVA, N.I.; KARANDASHEVA, N.N.

2-Nitronaphthalene-1, 4-disulfonic acid and 2-nitronaphthalene-4-sulfonic acid. Zhur.ob.khim. 31 no.6:1916-1919 Je 161.

(MIRA 14:6)

1. Nauchno-issledovatel skiy institut organicheskikh poluproduktov i krasiteley imeni K.Ye.Vorcshilova.

(Naphthalenedisulfonic acid) (Naphthalenesulfonic acid)

S/081/60/000/016/004/012 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 16, p. 87, # 64747

AUTHORS:

Maydanovskava, L.G., Karandasheva, R.A., Timofeyeva, N.S., Konstantinova, A.A., Vinokurtseva, I.M.

TITLE:

Hydrogen Adsorption on Germanium V

PERIODICAL:

Uch. zap. Tomskiv un-t, 1959, No. 29, pp. 165-169

TEXT: The hydrogen adsorption on high-dispersion germanium pewder was studied in a temperature range from -186 to +300°C within a range of initial pressure of 0.724 - 0.935 mm Hg; and at -186 to +100°C within a range of initial pressure of 0.194 - 0.178 mm Hg. Isobar curves indicate a minimum at -100°C and a maximum at -17°C. The course of the isobar curve obtained by Low (Lou) by other experimental methods and plotted by three experimental points, is confirmed and made more precise. The isobar curve is plotted on the basis of ten experimental points. The values of 1/n in Freundlich's equation are calculated, which vary with changing temperature from 0.59 to 0.81. The authors show the applicabil-

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了是影響時期的技术的影響是對於其一時間

SALCHINKIN, A.P.; KARANDASHEVA, K.A.; GLADKOVSKAYA, A.A.

Use of ion-exchange resins for the purif'cation of pyromucic acid. Zhur. prikl. khim. 37 no. 4:917-918 Ap '64.

(MIRA 17:5)

S/191/62/000/008/007/013 B124/B180

AUTHORS:

Karandasheva, T. A., Samosatskiy, N. N.

TITLE:

Features of low-density polyethylene tube extrusion

PERIODICAL:

Plasticheskiye massy, no. 8, 1962, 23-30

TEXT: The BE-40 ("Battenfeld") extruder can produce tubes from low-density polyethylene with intrinsic viscosity (in decalin) 1.0-2.5. Best working conditions are given in Table 2. A piston-type apparatus designed by the NIIKhIMMASh was used for measuring the pressure of the mass. As, in all polyolefins under continuous stress, creep is greater at lower intrinsic viscosity, tests must be made to find the best value for smooth extrusion and good quality production. The degree of stretching and rate of cooling are the most important factors with tubes. Strength increases with stretching, specific elongation decreases, and longitudinal shrinkage increases. Sudden cooling in the nozzle or tank, "freezes" the high internal stresses, particularly at low temperatures, and makes the tubes brittle. High grade tubes are best produced from low-density polyethylene with tensile strength at least 250 kg/cm² and minimum elonga-

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Features of low-density ...

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tion 250%. During extrusion the stretching should not exceed 10-20%. The surface of the tube at the outlet end should be maintained at 60°C cooling gradually to 30°C in the tank. Since low-density polyethylene is extruded at higher temperatures than high-density, the tubes must be cooled longer by means of sizing dies and longer cooling tanks. For uniform cooling throughout the wall a tank with a solid layer of water is best. Because of the higher viscosity, the feeding capacity of the extruder must be at least 30% more than for high-density polyethylene, with corresponding increase in the size of the main assemblies. To avoid overload, fine filter mesh must not be used nor must extrusion take place without heating the cylinder. Pure polyethylene is required, and the counterpressure before the injection head must be achieved by large mesh filters (e.g., no. 201) or a diaphragm. There are 9 figures and 4 tables. The most important English-language reference is: R. S. Malluk, J. M. McCelvy, Ind. Eng. Chem. 45, No. 5, 969-993 (1953).

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